

## H-33271 SEQLIST.TXT

## SEQUENCE LISTING

<110> dos Santos, Nuno Miguel Simoes  
do Vale, Ana Maria Silva  
Teixeira da Silva, Manuel Alexandre  
da Silva Azevedo, Jorge Eduardo  
Novartis AG

<120> Protein from Photobacterium damsela and  
use thereof

<130> VA/H-33271

<150> PCT/EP2004/008464

<151> 2004-07-28

<150> GB0317733.4

<151> 2003-07-29

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<212> DNA

<213> Photobacterium damsela subsp. piscicida

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|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |  |  |
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|     | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |  |  |
| Ile | Asp | Arg | Tyr | Thr | Ala | Ala | Ala | Thr | Glu | Tyr | Thr | Val | Ile | Asp | Ala |  |  |
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| Leu | Phe | His | Ser | Pro | Thr | Phe | Arg | His | Ile | Val | Ser | Phe | Gly | Leu | His |  |  |
|     |     |     |     | 85  |     |     |     | 90  |     |     |     |     |     | 95  |     |  |  |
| Asn | Gln | Gln | Glu | Asn | Leu | Gly | His | Ile | Arg | Tyr | Thr | Asn | Glu | Tyr | Glu |  |  |
|     |     |     | 100 |     |     |     | 105 |     |     |     |     |     | 110 |     |     |  |  |
| Ile | Asn | Asn | Asn | Arg | Glu | Asp | Glu | Phe | Ser | Leu | Val | Ser | Glu | Val | Ser |  |  |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |  |  |
| Tyr | Asp | Asp | Ile | Lys | Ser | Ser | Asn | Ala | Gln | Gln | Val | Pro | Leu | Val | Ala |  |  |
|     | 130 |     |     |     |     | 135 |     |     |     | 140 |     |     |     |     |     |  |  |
| Phe | Tyr | Glu | Ala | Arg | Glu | Asp | Arg | Ala | Thr | Gly | Thr | Pro | Ile | Val | Asn |  |  |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |  |  |
| Met | Gly | Val | Ala | Pro | Ser | Leu | Phe | Ser | Gly | Arg | Tyr | Ser | Trp | Trp | Gln |  |  |
|     |     |     |     | 165 |     |     |     | 170 |     |     |     |     |     | 175 |     |  |  |
| Glu | Ala | Leu | Ile | His | Glu | Ile | Val | His | His | Val | Thr | Gly | Ser | Ser | Asp |  |  |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |  |  |
| Thr | His | Glu | Glu | Asn | Lys | Gln | Gly | Pro | Thr | Glu | Ile | Leu | Ala | Gln | Met |  |  |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |  |  |
| Val | Ala | Ala | Glu | Leu | His | Trp | Ala | Ile | Pro | Thr | Phe | Lys | Gly | Tyr | Ser |  |  |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |  |  |
| Asp | Pro | Ala | Arg | Val | Glu | Ala | Ile | Gln | Glu | Arg | Asp | Phe | His | Ser | Leu |  |  |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |  |  |
| Leu | Asn | Met | Phe | Gln | Arg | His | Gly | Ser | Glu | Leu | Gly | Phe | Leu | Phe | Thr |  |  |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |  |  |
| Arg | Leu | Ala | Thr | Ile | Ala | Lys | Gly | Lys | Lys | Ala | Ser | Pro | Asp | Phe | Gly |  |  |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |  |  |
| Thr | Leu | Thr | Ser | Phe | Cys | Ser | Glu | Gly | Ile | Ser | Ser | Phe | Pro | Lys | Tyr |  |  |
|     | 275 |     |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |  |  |
| Pro | Asp | His | Asp | Asp | Asp | Phe | Asn | Gly | Gly | Gly | Ala | Phe | Phe | Leu | Pro |  |  |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |  |  |
| Ser | Ala | Ser | Ala | Asp | Ser | Ser | Val | Glu | Cys | Thr | Phe | Asp | Val | Leu | Asn |  |  |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |  |  |
| Arg | Ile | Glu | Pro | Val | Asp | Asp | Ser | Ile | Lys | Phe | Glu | Gly | Gly | Asn | Leu |  |  |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |  |  |
| Leu | Ile | Lys | Asn | Asp | Phe | Lys | Asn | Leu | Asn | Leu | Arg | Val | Ala | Gln | Leu |  |  |
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|     | 355 |     |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |  |  |
| Asp | Ser | Trp | Lys | Ser | Trp | Tyr | Gln | Ala | Ser | Ser | Trp | Lys | Asn | Gly | Leu |  |  |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |  |  |
| Asn | Ser | Gly | Leu | Tyr | Gly | Tyr | Gly | His | Asp | Glu | Ser | Glu | Gly | Asn | Leu |  |  |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     | 400 |     |  |  |
| Ile | Tyr | Ser | Pro | Tyr | Gly | Ile | Thr | Phe | Asn | Asp | Gly | Ser | Phe | Ser | Ile |  |  |
|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |  |  |
| Gly | Phe | Ser | Ser | Arg | Lys | His | Ile | Asn | Asp | Asn | Thr | Lys | Asp | Asp | Asn |  |  |
|     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |  |  |
| Phe | Val | Lys | Leu | Asn | Asn | Ala | Asn | Trp | Ser | Ser | Phe | Tyr | Tyr | Ala | Gly |  |  |
|     | 435 |     |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |  |  |
| Gln | Met | Phe | Phe | Asp | Lys | Asn | Lys | Arg | Pro | Val | Ala | Leu | Val | Ile | Thr |  |  |
|     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |  |  |
| Glu | Pro | Leu | Asn | Ala | Ala | Phe | Gly | Ala | Gly | Trp | Ser | Tyr | Ile | Tyr | Lys |  |  |
| 465 |     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |  |  |
| Asp | Gly | Lys | Trp | His | Tyr | Glu | Ala | Gln | Asp | Asp | Trp | Asp | Gln | Arg | Leu |  |  |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |     |  |  |
| Phe | Lys | Asp | Ser | Thr | Leu | Ser | Leu | Asp | Pro | His | Ala | Pro | Gln | Phe | Ile |  |  |
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